

---

U.S. Department of the Interior • U.S. Geological Survey

# MINERAL INDUSTRY SURVEYS

---

Gordon P. Eaton, Director

Reston, VA 20192

---

For information, contact:

Daniel Edelstein, Commodity Specialist

Telephone: (703) 648-4978, Fax: (703) 648-7757

E-mail: [dedelstein@usgs.gov](mailto:dedelstein@usgs.gov)

Stephen Frauenheim (Data), (703) 648-7977

MINES-DATA: (703) 648-7799

MINES FaxBack: (703) 648-4999

Internet: <http://minerals.er.usgs.gov/minerals>

## COPPER IN DECEMBER 1996

Mine production and primary refined production rose by 6% and 5%, respectively, in December. Mine production was at a record-high monthly level owing to increased production at several mines outside of Arizona. Refined consumption declined by 28,000 tons, or about 12%, yet remained about 23,000 tons above consumption in December 1995. Several major rod mills reported significantly lower production owing to holiday and maintenance shutdowns. According to Bureau of the Census data, imports of refined copper through November were up by more than 180,000 tons, or 47%, compared to the equivalent period in 1995. However, reported imports from Canada, which accounted for about 80,000 tons of the increase, may include significant quantities of unrefined copper, and are undergoing verification.

### Preliminary Annual Review of 1996

- Mine production continued its upward trend, rising by about 3% to a record-high level owing to startup of the Robinson Mine in Nevada and of underground mining at the Mission Complex in Arizona, as well as incremental expansions of the Inspiration Mine and Morenci Mine in Arizona, and of the Continental Mine in New Mexico.
- Owing to continued difficulties with the start-up of Kennecott's new smelter, domestic smelter production fell short of expectations, increasing by a modest 2% for the year. The United States continued to be a net exporter of copper concentrates.
- Refined production rose by about 60,000 tons, or 3%, despite a decline in secondary refined production. Primary refined production rose by about 5% owing to increases in

electrowon production and a near doubling in production from imported material. The Copper Range Co.'s White Pine, MI, refinery operated throughout the year on anode copper imported from Canada, its associated mine and smelter having closed in 1995.

- Consumption of refined copper rose about 4%, but still fell short of the record consumption in 1994. Consumption at wire rod mills rose about 2% despite the closure of two plants during 1995 with a combined capacity of more than 200,000 tons per year. Consumption at brass mills rose by about 10%; with supplies of copper scrap remaining tight throughout the year, consumption of refined copper as a percentage of their total feed material increased.
- The average U.S. producer price for the year declined by about 29 cents per pound from the record-high level of 1995. Copper prices were extremely volatile throughout the year owing to a tight balance between supply and demand, industry expectations that a supply surplus could develop, and market uncertainty surrounding the revelation of huge trading losses by Sumitomo Corp. and the possible existence of large unreported stocks.
- According to data compiled by the International Copper Study Group, world consumption of refined copper declined by 90,000 tons from the equivalent 1995 period while refined production rose by about 460,000 tons. As a result, the calculated apparent supply for the first 11 months of 1996 shifted from a large deficit of 460,000 tons in 1995 to a small surplus of 90,000 tons.

TABLE 1  
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES 1/

(Metric tons, unless noted)

	Source table 2/	1995	1996		
			November	December	Year total
Production:					
Primary:					
Mine, recoverable	(2)	1,850,000	157,000 r/	166,000	1,910,000
Smelter 3/	(3)	1,240,000	108,000 r/	113,000	1,270,000
Refinery:					
Electrolytic:					
Domestic	(4)	1,310,000	105,000 r/	113,000	1,290,000
Foreign	(4)	77,300	10,100 r/	8,240	146,000
Electrowon	(4)	539,000	47,800 r/	49,700	574,000
Total	(4)	1,930,000	163,000 r/	171,000	2,010,000
Secondary recoverable copper:					
Refineries	(5)	352,000	25,900 r/	26,300	327,000
Ingot makers 4/	(5)	124,000	10,300	10,300	124,000
Brass and wire-rod mills	(5)	713,000	55,500 r/	56,800	718,000
Foundries, etc.	(5)	62,400	5,200	5,200	62,400
Consumption:					
Total apparent	(8)	2,540,000	260,000	NA	NA
Refined (reported)	(7)	2,530,000	229,000	200,000	2,630,000
Purchased copper-base scrap	(9)	1,650,000	137,000 r/	132,000	1,650,000
Stocks at end of period:					
Total refined	(11)	163,000	125,000 r/	146,000	XX
Blister, etc.	(11)	174,000	167,000 r/	173,000	XX
Prices:					
U.S. producer cathode (cents per pound)	(12)	138.333	104.097	104.114	109.044
Imports:					
Ores and concentrates 5/	(14)	127,000	1,100	NA	NA
Refined	(14)	429,000	61,800	NA	NA
Exports:					
Ores and concentrates 5/	(15)	239,000	11,400	NA	NA
Refined	(15)	217,000	12,800	NA	NA

r/ Revised. NA Not available. XX Not applicable.

1/ Data are rounded to three significant digits, except prices; may not add to totals shown.

2/ Numbers in parentheses refer to the detailed tables where these data are located.

3/ From domestic and foreign ores.

4/ 1996 monthly data estimated based on 1995 monthly average.

5/ Copper content.

TABLE 2  
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES 1/

(Metric tons)

State	1995			1996				
	November	December	Year total	January	February	March	April	May
Arizona	101,000	105,000	1,170,000	104,000	93,000	108,000	103,000	107,000
Others 2/	46,200	45,700	682,000	50,500	47,900	55,800	53,900	53,700
Total	148,000	151,000	1,850,000	155,000	141,000	164,000	157,000	161,000

  

State	1996							
	June	July	August	September	October	November r/	December	Year total
Arizona	106,000	104,000	106,000	100,000	105,000 r/	102,000	105,000	1,240,000
Others 2/	56,100	57,400	58,900	58,200	59,300	55,000	61,500	668,000
Total	163,000	161,000	165,000	158,000	164,000 r/	157,000	166,000	1,910,000

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Includes production from California, Idaho, Michigan, Missouri, Montana, Nevada, New Mexico, Utah, and Wisconsin.

TABLE 3  
COPPER 1/ PRODUCED AT SMELTERS IN THE UNITED STATES, BY SOURCE 2/

(Metric tons, copper content)

Period	Domestic and foreign ores	Scrap	Total
1995:			
December	106,000	35,100	141,000
Year total	1,240,000	358,000	1,600,000
1996:			
January	113,000	29,200	142,000
February	108,000	29,800	138,000
March	101,000	33,300	134,000
April	105,000	28,200	133,000
May	94,300	30,600	125,000
June	104,000	30,400	134,000
July	103,000	32,300	136,000
August	97,200	29,100	126,000
September	106,000	31,500	138,000
October	113,000	33,200	146,000
November	108,000 r/	29,000	137,000 r/
December	113,000	33,700	146,000
Year total	1,270,000	370,000	1,640,000

r/ Revised.

1/ Includes blister, anode and black copper from primary or secondary sources.

2/ Data are rounded to three significant digits; may not add to totals shown.

TABLE 4  
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY 1/

(Metric tons)

Period	Primary materials				Scrap			Total refined
	Electrolytically refined 2/ Domestic 3/	Foreign	Electrowon	Total	Electro- lytically refined 2/	Fire refined	Total	
1995:								
December	112,000	7,340	50,700	170,000	16,000	11,100	27,100	197,000
Year total	1,310,000	77,300	539,000	1,930,000	215,000	137,000	352,000	2,280,000
1996:								
January	113,000 r/	15,900 r/	47,500	176,000	14,300	13,400	27,700	204,000
February	103,000 r/	14,800 r/	43,500	161,000	13,700	12,800	26,400	187,000
March	107,000 r/	14,400 r/	45,900	168,000	14,200	14,000	28,200	196,000
April	110,000 r/	14,800 r/	47,400	173,000	14,200	10,400	24,700	197,000
May	107,000 r/	13,900 r/	50,700	172,000	16,900	12,700	29,600	201,000 r/
June	94,600 r/	9,430 r/	48,300	152,000	17,300	13,700	30,900	183,000
July	113,000 r/	10,600 r/	48,200	172,000	18,100	6,310	24,400	196,000
August	102,000 r/	12,000 r/	47,100	161,000	14,000	11,000	25,000	186,000
September	105,000 r/	12,700 r/	45,900	163,000	12,900	13,900	26,800	190,000
October	122,000 r/	9,190 r/	51,600	183,000	17,200 r/	13,500	30,600	213,000
November	105,000 r/	10,100 r/	47,800 r/	163,000 r/	15,000	10,900	25,900 r/	189,000 r/
December	113,000	8,240	49,700	171,000	18,500	7,800	26,300	198,000
Year total	1,290,000	146,000	574,000	2,010,000	186,000	140,000	327,000	2,340,000

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Based on source of material at smelter level.

3/ Includes fire-refined copper.

TABLE 5  
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASED SCRAP 1/

(Metric tons, copper content)

Period	Refineries 2/		Ingot makers 3/		Brass and wire-rod mills		Foundries, etc. 4/		Total 5/
	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
1995:									
December	8,870	18,200	2,890	7,440	45,400	3,650	2,240	2,960	91,700
Year total	112,000	240,000	34,700	89,200	664,000	49,300	26,900	35,600	1,250,000
1996:									
January	11,100	16,600	2,890	7,440	59,400	3,350	2,240	2,960	106,000
February	9,790	16,600	2,890	7,440	54,000	2,980	2,240	2,960	99,000
March	11,100	17,200	2,890	7,440	57,600	2,660	2,240	2,960	104,000
April	8,200	16,500	2,890	7,440	57,400	4,240	2,240	2,960	102,000
May	10,000	19,600	2,890	7,440	60,100	4,230	2,240	2,960	109,000
June	10,900	20,000	2,890	7,440	58,700	4,960	2,240	2,960	110,000
July	6,010	18,400	2,890	7,440	50,100 r/	3,880	2,240	2,960	93,900 r/
August	8,310	16,700	2,890	7,440	55,600 r/	3,870	2,240	2,960	100,000 r/
September	10,300	16,500	2,890	7,440	52,400 r/	3,850	2,240	2,960	98,600 r/
October	10,900	19,800	2,890	7,440	57,600 r/	3,640	2,240	2,960	107,000 r/
November	8,730	17,200	2,890	7,440	55,500 r/	4,580	2,240	2,960	102,000 r/
December	5,750	20,600	2,890	7,440	52,400	4,410	2,240	2,960	98,700
Year total	111,000	216,000	34,700	89,200	671,000	46,700	26,900	35,600	1,230,000

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Electrolytically refined and fire-refined scrap based on source of material at smelter level.

3/ Data no longer collected monthly; 1995 and 1996 data estimated based on 1995 annual data.

4/ Estimate based on 1995 annual data.

5/ Does not include an estimate, based on reported 1995 data, of 3,100 tons per month from new scrap and 2,330 tons per month from old scrap of copper recovered from scrap other than copper-base.

TABLE 6  
PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD MILL SEMIFABRICATES 1/

(Metric tons, gross weight)

Period	Production		Shipments		Stocks, end of period	
	Brass mills	Wire rod mills	Brass mills	Wire rod mills	Brass mills	Wire rod mills
1995:						
December	105,000	134,000	98,600	132,000	52,500	69,100
Year total	1,420,000	1,820,000	1,430,000	1,820,000	XX	XX
1996:						
January	120,000	144,000	122,000	146,000	50,100	67,100
February	128,000	153,000	130,000	157,000	48,800	63,500
March	144,000	171,000	142,000	160,000	51,300	74,300
April	131,000	157,000	133,000	175,000	49,400	55,800
May	130,000	173,000	129,000	165,000	51,000	63,200
June	131,000 r/	163,000	126,000 r/	151,000	55,200 r/	75,200
July	111,000 r/	139,000	114,000 r/	152,000	52,200 r/	62,900
August	130,000	142,000	132,000 r/	156,000	50,300 r/	48,500
September	135,000	163,000	136,000	158,000	49,500 r/	53,200
October	139,000	180,000	139,000	184,000	49,600 r/	50,100
November r/	134,000	176,000	134,000	171,000	50,300	55,000
December	116,000	149,000	113,000	149,000	53,100	60,700
Year total	1,550,000	1,910,000	1,550,000	1,920,000	XX	XX

r/ Revised. XX Not applicable.

1/ Data are rounded to three significant digits; may not add to totals shown.

TABLE 7  
CONSUMPTION OF REFINED COPPER 1/

(Metric tons)

Period and item	Wire rod mills	Brass mills 2/	Other plants 3/	Total
1995:				
December	132,000	40,700	4,630	177,000
Year total	1,950,000	533,000	55,600	2,530,000
1996:				
January	154,000	45,100	4,630	204,000
February	165,000	47,200	4,630	216,000
March	181,000	56,400	4,630	242,000
April	162,000	47,500	4,630	214,000
May	184,000	47,500	4,630	236,000
June	164,000	49,400 r/	4,630	218,000
July	147,000	41,900 r/	4,630	193,000 r/
August	154,000	50,100 r/	4,630	209,000
September	162,000	55,400 r/	4,630	222,000
October	185,000	53,600 r/	4,630	244,000
November	177,000	46,800 r/	4,630	229,000
December:				
Cathodes	150,000	33,900	1,120	185,000
Wire bars	--	W	W	W
Ingots and ingot bars	--	1,050	1,660	2,710
Cakes and slabs	--	3,470	W	3,470
Billets and other	--	7,270	1,860	9,120
Total	150,000	45,700	4,630	200,000
Year total	1,980,000	586,000	55,600	2,630,000

r/ Revised. W Withheld to avoid disclosing company proprietary data; included in "Billets and other."

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ In 1995, brass mills consumed 2,210 tons of refined lead, 706 tons of pig tin, 3,870 tons of refined nickel, and 64,100 tons of slab zinc.

3/ Monthly consumption by ingot makers, chemical plants, foundries, and miscellaneous manufacturers; estimated based on 1995 annual data.

TABLE 8  
U.S. APPARENT CONSUMPTION OF COPPER 1/

(Metric tons)

Period	Refined copper production	Copper in old scrap 2/	Net refined imports	Stock change during period	Apparent consumption
1995:					
December	170,000	34,600	30800	30900	205000
Jan.-Nov.	1,760,000	408,000	181,000	13,600	2,330,000
Year total	1,930,000	442,000	211,000	39,100	2,540,000
1996:					
January	176,000	32,700	29400	28600	210000
February	161,000	32,300	24800	(21,400)	239000
March	168,000	32,600	35500	(7,120)	243000
April	173,000	33,400	37300	10,800	232000
May	172,000	36,500	46000	(26,400)	281000
June	152,000	37,700	33900	(7,400) r/	231000 r/
July	172,000	35,000	38000	23,300 r/	222000
August	161,000	33,300	47100	(6,660) r/	248000
September	163,000	33,100	47800	(13,000)	257000
October	183,000	36,100	29700	(4,950) r/	254000
November	163,000 r/	34,500	49100	(13,700) r/	260000
December	171,000	37,700	NA	20,400	NA
Jan.-Nov.	1,840,000	377,000	419,000	37,900	2,680,000

r/ Revised. NA Not available.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Includes reported monthly production of copper from old scrap of copper-base and of non-copper-base materials and estimates for annual reporters based on 1995 data.

TABLE 9  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP 1/

(Metric tons, gross weight)

Period	Smelters and refineries		Ingot makers 2/		Brass and wire-rod mills 3/		Foundries, etc. e/		Total scrap used
	New scrap 2/	Old scrap	New scrap	Old scrap	New scrap	Old scrap	New scrap	Old scrap	
1995:									
December	10,100	32,100	3,870	11,300	57,100	4,460	2,570	3,390	125,000
Year total	128,000	385,000	46,400	136,000	827,000	59,400	30,800	40,600	1,650,000
1996:									
January	12,600	26,600	3,870	11,300	74,300	4,100	2,570	3,390	139,000
February	10,700	28,200	3,870	11,300	68,200	3,830	2,570	3,390	132,000
March	11,700	32,200	3,870	11,300	72,300	3,570	2,570	3,390	141,000
April	9,680	26,800	3,870	11,300	71,900	5,000	2,570	3,390	134,000
May	10,800	31,400	3,870	11,300	75,500	5,100	2,570	3,390	144,000
June	13,200	36,300	3,870	11,300	73,200 r/	5,990	2,570	3,390	150,000
July	8,120	27,900	3,870	11,300	63,800 r/	4,790	2,570	3,390	126,000 r/
August	10,000	28,300	3,870	11,300	70,700 r/	4,880	2,570	3,390	135,000 r/
September	12,700	27,000	3,870	11,300	66,600 r/	5,010	2,570	3,390	132,000 r/
October	11,600	33,500	3,870	11,300	73,000 r/	4,510	2,570	3,390	144,000 r/
November	10,700	29,000	3,870	11,300	70,300 r/	5,530	2,570	3,390	137,000 r/
December	7,700	31,700	3,870	11,300	66,200	5,400	2,570	3,390	132,000
Year total	130,000	359,000	46,400	136,000	846,000	57,700	30,800	40,600	1,650,000

e/ Estimated. r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Data for 1995 and 1996 are estimated from 1995 annual data.

3/ Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP 1/ 2/

(Metric tons, gross weight)

Scrap type and processor	1995	1996			
	Year total	October	November	December	Year total
No. 1 wire and heavy:					
Smelters and refiners	161,000	14,300	11,900	8,400	147,000
Brass and wire-rod mills	375,000	30,200 r/	29,700 r/	28,600	355,000
No. 2 mixed heavy and light:					
Smelters and refiners	225,000	20,300	16,800	20,600	215,000
Brass and wire-rod mills	33,400	2,500	2,500	2,500	34,900
Total unalloyed scrap:					
Smelters and refiners	386,000	34,700	28,700	29,000	362,000
Brass mills	408,000	32,700 r/	32,200 r/	30,800	390,000
Red brass: 3/					
All plants	66,200	5,430	5,430	5,430	65,300
Leaded yellow brass:					
All plants	367,000	35,500 r/	33,000 r/	31,300	397,000
Yellow and low brass:					
Smelters and refiners	(4/)	(4/)	(4/)	(4/)	(4/)
Brass mills	47,500	4,020	4,020	4,020	50,900
Cartridge cases and brass:					
Smelters and refiners	--	--	--	--	--
Brass mills	49,400	3,860	3,860	3,860	45,100
Auto radiators:					
Smelters and refiners	73,000	6,080	6,080	6,080	73,000
Bronzes:					
Smelters and refiners	--	--	--	--	--
Brass mills	11,300	1,030	1,070	999	11,200
Nickel-copper alloys:					
Smelters and refiners	--	--	--	--	--
Brass mills	17,700	1,250	1,400	1,400	22,400
Low grade & residues:					
Smelters and refiners	91,800	7,360	7,940	7,240	88,800
Other alloy scrap: 5/					
Smelters and refiners	39,700	3,380	3,350	3,560	41,400
Brass mills	3,920	460	357	347	4,440
Total alloyed scrap:					
Smelters and refiners	310,000	25,600	26,200	25,700	309,000
Brass mills	478,000	44,900 r/	43,700 r/	40,800	514,000
Total scrap:					
Smelters and refiners	695,000	60,300	54,800	54,600	671,000
Brass and wire-rod mills	886,000	77,500 r/	75,900 r/	71,600	904,000

r/ Revised.

1/ Does not include: consumption by foundries, chemical plants and miscellaneous manufacturers, estimated to total about 6,000 tons of scrap per month in 1995; consumption of home scrap at brass mills which averaged 57,200 tons per month in 1995. Monthly data include estimates of about 30,000 tons of scrap per month consumed by ingot makers and several smelters that report only on an annual basis.

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ Includes composition turnings, silicon bronze, zinc bronze, railroad car boxes, cocks and faucets, gilding metal and commercial bronze.

4/ Withheld to avoid disclosing company proprietary data; included in "Other alloy scrap."

5/ Includes refinery brass, beryllium copper, phosphor copper and aluminum bronze.

TABLE 11  
COPPER STOCKS AT END OF PERIOD 1/

(Metric tons)

Period	Crude copper 2/	Refined copper						Total refined
		Refineries 3/	Wire rod mills 3/	Brass mills 3/	Other 4/	Comex 5/	LME 6/	
1995:								
December	174,000	38,000	24,800	7,110	3,540	21,500	68,200	163,000
1996:								
January	172,000	35,700	34,500	10,400	3,540	11,000	96,700	192,000
February	177,000	31,700	22,600	11,200	3,540	11,700	89,600	170,000
March	153,000	33,800	19,500	9,820	3,540	12,600	84,000	163,000
April	171,000	35,600	25,500	11,300	3,540	18,800	79,400	174,000
May	166,000	35,500	19,200	9,840	3,540	12,000	67,500	148,000
June	162,000	33,500	13,100	12,700 r/	3,540	6,880	70,400	140,000
July	154,000	41,700	29,700	13,700 r/	3,540	16,100	58,700	164,000 r/
August	159,000	34,000	25,800	13,800 r/	3,540	20,100	59,600	157,000 r/
September	161,000	32,400	19,400	12,900 r/	3,540	19,700	56,000	144,000 r/
October	163,000	33,900	31,000	12,800 r/	3,540	28,600	29,200	139,000 r/
November	167,000 r/	32,200 r/	30,600 r/	12,000 r/	3,540	26,000	20,900	125,000 r/
December	173,000	32,200	32,100	13,000	3,540	26,600	38,300	146,000

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Copper content of blister and other materials in transit and in process of refining.

3/ Stocks of refined copper as reported; no estimates are made for non-respondents.

4/ Monthly estimates based on reported and 1995 annual data, comprising stocks at secondary smelters, chemical plants, foundries, and miscellaneous manufacturers.

5/ Commodity Exchange Inc., New York.

6/ London Metal Exchange Ltd., U.S. warehouses.

TABLE 12  
AVERAGE PRICE OF COPPER IN THE UNITED STATES AND  
ON THE LONDON METAL EXCHANGE

(Cents per pound)

Period	U.S. producers delivered price		Comex first position 3/	L.M.E. cash price Grade A
	Cathode 1/	Wirebar 2/		
1995:				
December	135.103	143.778	131.778	132.683
Average	138.333	146.724	134.717	133.122
1996:				
January	121.431	130.090	118.091	118.622
February	120.020	128.668	116.668	115.077
March	121.540	130.200	118.200	116.140
April	122.628	131.286	119.286	117.707
May	126.667	135.327	123.327	120.527
June	107.828	116.538	104.488	98.447
July	94.007	102.693	90.667	90.006
August	95.479	104.139	92.139	91.072
September	93.848	102.623	90.508	88.026
October	96.873	105.533	95.533	88.935
November	104.097	112.776	100.776	101.149
December	104.114	114.781	102.781	102.837
Average	109.044	117.888	106.039	104.045

1/ Listed as "U.S. producer cathode."

2/ Listed as "Electrolytic wirebar (Warrenton Refining Co.)."

3/ Listed as "Comex high grade first position."

Sources: Platt's Metals Week and American Metal Market.



TABLE 13  
NEW YORK AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

Month	Brass mills No. 1 scrap	Refiners No. 2 scrap	Dealers (New York)	
			No. 2 scrap	Red brass turnings and borings
1995:				
December	120.89	103.96	92.00	66.00
Average	123.28	104.73	91.26	63.38
1996:				
January	112.46	95.09	87.98	57.86
February	111.85	93.83	89.75	57.00
March	113.06	96.54	92.53	57.66
April	114.20	96.99	84.43	58.00
May	116.25	97.10	84.59	57.84
June	96.95	83.00	77.85	55.35
July	88.58	69.76	64.43	46.79
August	90.85	73.93	64.00	46.09
September	88.69	72.56	64.00	46.00
October	89.21	73.04	64.00	46.00
November	97.04	79.22	64.63	46.63
December	99.17	81.94	65.00	47.00
Average	101.53	84.42	75.27	51.85

Source: American Metal Market.

TABLE 14  
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS 1/

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	1996			1996			1996			1996		
	1995	Nov.	Jan.-Nov.	1995	Nov.	Jan.-Nov.	1995	Nov.	Jan.-Nov.	1995	Nov.	Jan.-Nov.
Brazil	--	--	--	--	--	--	--	--	--	15,500	--	13,600
Canada	(2/)	--	8,980	590	16	228	40,000	138	3,760	283,000	28,100	326,000
Chile	80,400	1,100	59,800	--	--	--	38,000	2,960	45,800	29,100	19,100	107,000
Germany	--	--	--	--	--	--	--	--	--	12,300	9,950	9,960
Japan	--	--	--	4	--	--	(2/)	--	(2/)	7,740	905	3,940
Malaysia	--	--	--	55	--	79	--	--	--	--	--	--
Mexico	11,700	--	3,680	2,190	135	1,840	2,350	234	19,000	58,600	802	29,600
Peru	34,900	--	--	--	--	--	10,400	1,010	7,960	9,860	1,940	59,400
Russia	--	--	--	--	--	--	--	--	--	11,600	442	15,000
Spain	--	--	--	--	--	--	3,260	176	2,710	--	--	--
Taiwan	--	--	--	1	(2/)	23	--	--	--	--	--	(2/)
Other	2	--	3	13	--	2	--	--	649	620	601	7,000
Total	127,000	1,100	72,400	2,860	151	2,170	94,100	4,510	79,900	429,000	61,800	572,000

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Less than 1/2 unit.

Source: Bureau of the Census.

TABLE 15  
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS 1/

(Metric tons, copper content)

Country or territory	Ore and concentrate			Matte, ash and precipitates			Blister and anodes			Refined		
	1995	1996		1995	1996		1995	1996		1995	1996	
		Nov.	Jan.-Nov.		Nov.	Jan.-Nov.		Nov.	Jan.-Nov.		Nov.	Jan.-Nov.
Belgium	1,980	--	--	1,330	--	3	81	--	239	2,260	6	46
Canada	123,000	2,760	76,000	30,400	1,190	30,400	24,800	871	17,100	22,900	1,750	26,400
China	37,100	--	51,800	17	--	2	211	--	44	5,130	--	233
Germany	--	1	76	152	--	1	84	39	463	629	42	182
Hong Kong	--	--	16	48	--	29	650	306	954	4,710	--	505
Italy	--	--	8	--	--	--	245	(2/)	426	1,580	--	2,150
Japan	53,500	8,600	36,600	1,880	73	2,030	363	--	390	52,800	2,660	30,300
Korea, Republic of	5,520	--	2	10	--	15	1,440	236	656	11,200	199	3,480
Malaysia	--	--	--	--	--	--	--	--	(2/)	4,110	417	6,260
Mexico	160	--	2,340	763	498	2,440	219	7	370	2,710	1,350	6,070
Peru	1,180	--	1,750	9	--	--	--	--	--	--	12	141
Philippines	16,000	--	--	--	--	--	20	--	17	3	--	--
Singapore	5	--	--	18	2	3	39	--	40	12,700	6	1,390
Spain	--	--	2,800	--	--	6	2	--	--	--	--	7
Taiwan	--	--	--	201	--	--	137	--	161	75,000	4,840	51,900
Thailand	34	--	--	--	--	--	124	8	66	18,700	1,420	23,900
Venezuela	--	--	--	--	--	--	860	--	6	27	--	25
Other	341	--	1,800	220	17	557	224 r/	--	332	3,030	77	871
Total	239,000	11,400	173,000	35,100	1,770	35,500	29,500	1,470	21,300	217,000	12,800	154,000

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Less than 1/2 unit.

Source: Bureau of the Census.

TABLE 16  
U.S. COPPER SCRAP TRADE 1/

(Metric tons, gross weight)

Country or territory	Imports						Exports					
	Unalloyed			Alloyed			Unalloyed			Alloyed		
	1995	1996		1995	1996		1995	1996		1995	1996	
		Nov.	Jan.-Nov.		Nov.	Jan.-Nov.		Nov.	Jan.-Nov.		Nov.	Jan.-Nov.
Belgium	11	--	--	294	--	--	2,730	693	9,270	3,030	188	1,390
Canada	36,600	4,560	37,300	64,600	4,640	53,600	110,000	9,990	94,300	42,600	3,100	38,000
Chile	9,270	1,030	10,800	66	32	160	--	--	--	7	--	5
China	--	--	--	21	--	62	28,000	628	11,900	50,100	1,590	23,700
Colombia	325	137	609	1,280	328	2,690	--	--	--	9	--	3
Costa Rica	848	128	1,240	524	26	374	--	--	--	--	--	--
Dominican Republic	702	43	492	1,860	132	1,810	--	--	--	--	--	--
El Salvador	377	15	428	181	158	452	--	--	--	8	20	20
Germany	--	1	4	64	--	122	1,580	3,900	7,190	4,310	330	5,040
Honduras	67	19	254	891	101	854	--	--	--	--	--	--
Hong Kong	--	--	--	23	6	120	31,400	2,270	27,000	30,900	1,720	41,900
India	--	--	--	--	--	--	7,020	151	3,950	42,500	2,720	27,400
Japan	--	--	2	124	15	66	20,000	1,870	17,500	16,700	1,980	16,500
Korea, Republic of	--	--	--	14	--	--	10,300	293	4,740	24,100	902	10,100
Mexico	32,800	1,740	26,000	50,500	2,830	39,500	6,470	--	2,450	1,710	83	3,820
Panama	1,170	98	917	776	83	1,020	--	--	--	--	--	--
Switzerland	--	--	--	--	--	--	17	--	2,760	140	--	18
Taiwan	--	11	69	2,940	95	1,310	1,680	326	1,220	3,730	551	4,450
Thailand	--	--	--	8	--	36	--	--	37	2,490	230	2,160
United Kingdom	111	--	(2/)	201	119	1,290	338	--	194	2,810	10	361
Venezuela	3,260	49	2,430	2,860	206	2,300	--	--	--	22	--	40
Vietnam	--	--	--	--	--	--	37	--	23	15	--	365
Other	2,550 r/	281	2,920	6,330 r/	497	7,010	3,530 r/	--	509	8,210 r/	231	6,320
Total	88,100	8,110	83,400	134,000	9,260	113,000	223,000	20,100	183,000	233,000	13,700	182,000

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ Less than 1/2 unit.

Source: Bureau of the Census.